

Default programmes are shown in the "winter programmes" and "summer programmes" boxes. Once the desired programme has been selected, move on to the next day by pressing the "OK" key.

If no program meets the user's needs, choose any program and press the "PRG" key again.

At this point:

- the field segment (17) for the current time starts flashing.
- field (22) shows the time corresponding to the current time (corresponding to the programming time flashing in the graphics field).
- field (15) shows the currently selected temperature level.

The T₈, T₉ and T₁₀ keys can be used to change the selected temperature for that hour and to move to the next hour at the same time. Use the "+" and "-" keys to move between hours without changing the set temperature.

Press the "OK" key to confirm the modified programme and return to the state with "P_x" flashing in field (16).

Press the "OK" key to confirm the programme for that day and to move on to the next day until it reaches Sunday, after which it returns to normal operation.

TEMPERATURE SETTING

In any of the operating modes, when the T₈, T₉ and T₁₀ keys are pressed, the wording for the temperature being modified appears in field (22), (for T₈ "E₀:", for T₉ "E₁:", and for T₁₀ "E₂:"), the value of the above temperature flashes in field (16).

Use the "+" and "-" keys to change the value and the "OK" key to confirm the change and return to normal operation.

The setting limits for the sets are shown in the technical characteristics

MANUAL OPERATION

In automatic mode, when the "M" key is pressed, the system operates as a normal thermostat with T_m operating temperature.

Field (22) will show the current time. Field (14) will show the current date.

The word "SET" appears in field (15). The symbol (18) appears.

Field (17) disappears. The set manual temperature value flashes in field (16).

Use the "+" and "-" keys to change the value from 2.0 °C to 50 °C in winter, from 10 °C to 50 °C in summer.

By pressing the "OK" key or after 20 seconds from the last operation, the room temperature value will reappear in field (16).

The set temperature can be checked at any time by pressing the "+" key or the "-" key once; press again one of the 2 keys to change the temperature setting.

To switch between manual and automatic mode, just press and hold the "M" key for at least 3 seconds.

SUMMER / WINTER OPERATION

To switch from winter to summer mode (or vice versa), press the "M" key (2) with a tap.

Field (15) will show the word "SE₁", whereas field (22) will show the word "SE₀" (or "E₀").

The flashing symbol "M" (or "E") will be shown. Use the "+" and "-" keys to select one of the two operating modes.

The program will switch to the desired mode when the "OK" key is pressed or after 20 seconds from the last operation.

The potential for summer operation is the same as that for winter operation. All parameters can therefore be set using the procedures described in this manual.

ON-OFF CONTROL

The On-Off control ("M" key) allows activating or deactivating the normal operation of the thermostat, switching between automatic/manual and off and vice versa.

SETTING A TIMING

This menu allows setting a time, expressed in hours or days, for the current operating mode.

TIMERS: WHAT ARE THEY?

Timers allow the current operation (automatic, manual, off) to be maintained for a specified period (hours or days) from the time of setting. When the set time has elapsed, the thermostat changes mode as described below. The timed operations are:

Timed automatic operation

If a timer is set to automatic mode, it will remain in this mode until the set time has elapsed, at which point it will switch to off mode.

Timed manual mode

If a timer is set to manual mode, it will remain in this mode until the set time has elapsed, at which point it will switch to automatic mode.

Timed operation off

If a timer is set during Off mode, this mode will be maintained until the set time has elapsed, at which point it will revert to the mode set before switching off (automatic or manual).

If a timer is set, the symbol "M" appears on the display.

TO SET A TIMER

Press the key "M": field (16) will flash and show "00" "h".

Use the "+" and "-" keys to set a value and the "OK" key to set the unit of measurement (h = hours, d = days).

Finally, press the key "OK" to confirm and save or wait 20 s.

When a timer is active, field (19) "M" is on.

To display the remaining time, press the "OK" key and then press "OK" to return to the main page without making any changes.

ADVANCED PROGRAMMING

Press and hold the "PRG" key for more than 3 seconds to enter advanced programming. Field (22) will display the wording relating to the parameter.

The set value starts flashing in field (16).

The parameters can be changed using the "+" and "-" keys; press the "OK" key to move on to the next parameter.

The advanced programming parameters (listed in order of appearance) are as follows:

TYPE OF ADJUSTMENT (rE₀)

The type of adjustment depends on the characteristics of the system to be adjusted.

In most cases, ON/OFF control is recommended (default setting), whereas proportional control is preferable when there is a high thermal inertia and more precise control is required (large rooms, fan coils, cast iron radiators, etc.). Proportional control can only be selected for WINTER HEATING operation.

Choose:

0 = on/off with settable differential

P08 = proportional with 0.8 °C band and 8 minutes period

P15 = proportional with 1.5 °C band and 15 minutes period

PARAMETERS FOR ADJUSTMENT (d₁ F₀)

In the case of on/off control, it is possible to select the differential value ("d₁ F₀"), which can take values between 0.1 °C and 1 °C. Smaller differential values allow a more precise adjustment but also more frequent switching on and off of the system. The factory value is 0.3 °C.

ANTIFREEZE TEMPERATURE (OFF)

It is active only in WINTER-HEATING operation.

Indicates the temperature that is maintained when the chronothermostat is off.

It can be set between 1.0 °C and 50 °C or be disabled by selecting "----". The factory value is 6.0 °C.

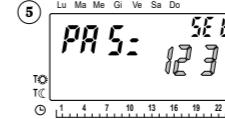
UNIT OF MEASUREMENT (dE₀)

It allows selecting the unit of measurement between degrees Celsius (C) and degrees Fahrenheit (F).

PASSWORD FOR "LOCK" SETTINGS (PRG)

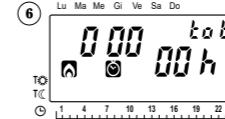
This setting is very useful in situations where you want to allow only authorised persons to change settings (e.g. offices, public places, schools, etc.). A value from 000 to 999 can be selected.

To activate the keypad lock, press and hold the T₁₀, T₁₁ and T₁₂ keys for at least 3 seconds. Once the keypad is locked, press any key to display the word "bl_{ok}". To unlock the keypad, press and hold the keys for at least 3 seconds the T₁₀, T₁₁ and T₁₂ keys, enter the previously chosen password and confirm with the "OK" key



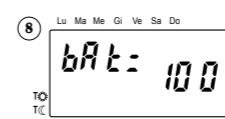
TOTAL OPERATING HOURS (t_{ok})

The value indicates for how many hours the output relay was ON, i.e. with contact closed between COM and NO. The hour counter is reset by pressing and holding the Clock key (12) for at least 3 seconds.



BATTERY CHARGE STATUS (bR_{ok})

Indicates the charge level of the batteries as a percentage. When the batteries are low, the device display starts flashing and the word "bR_{ok}" lights up. In this condition, correct operation is no longer guaranteed and we recommend replacing the batteries (see "Battery Replacement and Disposal").



TYPE OF ADJUSTMENT

The default setting is winter (r₁₅), On-Off type (0), with switch off corresponding to SET and with adjustable differential in the 0.1 to 1 °C range (default 0.3 °C).

The summer adjustment (r₁₅) is complementary: if for one the command is activation, for the other it is deactivation.

In proportional mode P08 = proportional with 0.8 °C band and 8-minute period P15 = proportional with 1.5 °C band and 15-minute period, if the reading is outside the band then the load is always on or off. If the reading is within the band, the adjustment is on an 8-minute or 15-minute basis (depending on whether P8 or P15 is selected). The following is an example of a P8 type adjustment:

T _{meas} ≥ T _{set} + 0.5 °C	→	relay off
T _{meas} = T _{set} + 0.4 °C	→	1 minute ON; 7 minutes off
T _{meas} = T _{set} + 0.3 °C	→	2 minutes ON; 6 minutes off
T _{meas} = T _{set} + 0.2 °C	→	3 minutes ON; 5 minutes off
T _{meas} = T _{set} + 0.1 °C	→	4 minutes ON; 4 minutes off
T _{meas} = T _{set} - 0.1 °C	→	5 minutes ON; 3 minutes off
T _{meas} = T _{set} - 0.2 °C	→	6 minutes ON; 2 minutes off
T _{meas} = T _{set} - 0.3 °C	→	7 minutes ON; 1 minutes off
T _{meas} ≤ T _{set} - 0.3 °C	→	relay ON

If the operating setpoint is changed, or if the room temperature reaches values outside the control band, control is in ON-OFF mode until T_{set} is reached for the first time, in order to reach the setpoint conditions more quickly.

VIEW DURING OPERATION

Below are the possible views on the display and the corresponding operation.

Automatic Mode:

weekly clock displaying the hours, minutes and day of the week; temperature graph (the column in the graph relating to the current time flashes); room temperature, symbol "C" (default) or "F"; symbol "M" (if the boiler is activated) or symbol "A" (if the air conditioning is activated).



Off Mode:

daily clock displaying the hours and minutes; room temperature, symbol "C" (default) or "F".



Manual Mode:

as for automatic operation except that there is no temperature graph, but there is the symbol "M". As soon as the "M" key is pressed, the word "SET" appears and instead of the ambient temperature, the manual temperature set "T_m" (flashing) appears, which can be modified using the "+" and "-" keys. 20 seconds after the last operation, or by pressing the "OK" key, the measured value will reappear in the temperature field.



Timer:

as for previous operations with the addition of the "M" symbol.

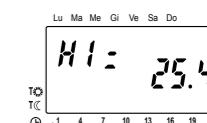


Maximum and minimum daily temperature

During automatic or off mode, it is possible to display the minimum and maximum values of the temperature measured throughout the day.

Press the "-" key for the Minimum or the "+" key for the Maximum. On the display, the maximum value is indicated with "H", while the minimum value with "L".

To reset the Minimum or Maximum value, simply press the "-" or "+" key for at least 3 seconds until "----" appears.



BATTERY REPLACEMENT AND DISPOSAL

To avoid losing the date and time settings, replace the spent batteries with new ones within a maximum of one minute (power reserve). However, the programming carried out is retained in the memory even if this limit is exceeded.

Note: it may take up to 15 seconds for the display to come back on after the batteries have been replaced.

It is necessary to remove the batteries before the instrument is scrapped.

In case of replacement, dispose of the batteries in the appropriate places separate waste collection containers.

06-2024

REFERENCE STANDARDS

Compliance with Community Directives:

2014/35/EU (LVD)

2014/30/EU (EMCD)

is declared with reference to the following harmonized standards:

EN 60730-2-7, EN 60730-2-9

information to users pursuant to art. 14 of the directive 2012/19 / EU of the european parliament and of the council of 4 july 2012 on waste electrical and electronic equipment (WEEE)

If the crossed-out bin symbol appears on the equipment or packaging, this means the product must not be included with other general waste at the end of its working life.

The user must take the worn product to a sorted waste center, or return it to the retailer when purchasing a new one.

Products for disposal can be consigned free of charge (without any new purchase obligation) to retailers with a sales area of at least 400 m², if they measure less than 25 cm.

An efficient sorted waste collection for the environmentally friendly disposal of the used device, or its subsequent recycling, helps avoid the potential negative effects on the environment and people's health, and encourages the re-use and/or recycling of the construction materials.